

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A method for recognizing a request for data transmission by a mobile/~~base~~ station RRC (Radio Resource Control) or a base station RRC using a network transfer device, by which the mobile/~~base~~ station RRC or the base station RRC can recognize the request for data transmission using the network transfer device in a state where recognition of the request for data transmission is disabled, the method comprising:

(a) the mobile/~~base~~ station RRC setting the network transfer device of the base station in a suspend state to recognize a request for data transmission from an up/~~down~~ link or the base station RRC setting the network transfer device of the mobile station in a suspend state to recognize a request for data transmission from a down link;

(b) the network transfer device in the suspend state sending a message to the mobile/base station RRC to inform the mobile station RRC that it recognizes the request for data transmission in the case of recognizing the request for data transmission to an up link, and the network transfer device of the base station in the suspend state sending a message to the base station RRC to inform the mobile station RRC that it recognizes the request for data transmission in the case of recognizing the request for data transmission to a down link;

(c) the mobile/~~base~~ station RRC or the base station RRC recognizing the request for data transmission according to a received message from the network transfer device and transiting to an active state; and

(d) the network transfer device transiting to the active state by the RRC transited to the active state.

Claim 2 (Original): The method as claimed in claim 1, wherein the network transfer device comprises an RLC (Radio Link Control) protocol control network of the mobile/base station.

Claim 3 (Original): The method as claimed in claim 1, wherein the network transfer device is a PDCP (Packet Data Convergence Protocol) control network of the mobile/base station.

Claim 4 (Original): The method as claimed in claim 1, wherein (a) comprises:

(a-1) the base station RRC setting the base station RLC in the suspend state and then setting a base station PDCP in the suspend state; and

(a-2) the mobile station RRC setting the mobile station RLC in the suspend state and then setting a base station PDCP in the suspend state.

Claim 5 (Original): The method as claimed in claim 1, wherein (a) comprises:

(a-1) the base station RRC setting a base station RLC in the suspend state and then setting a base station PDCP in the suspend state; and

(a-2) the mobile station RRC setting a base station RLC in the suspend state.

Claims 6-8 (Canceled)